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The genetic classification of combustibles. S. M. Grigor'ev. Doklady Akad. Nauk S.S.R. 58, 1977-8 (1947); Chem. Zvest., 1948, II, 848.—The elementary compn. of the combustibles is expressed in at. % and then the C, O, and H contents are represented on triangular diagrams. Regarding the theory of the formation of the combustibles, it is assumed that there is no addn. of O or H but rather that a gradual splitting off of  $\text{CO}_2$ ,  $\text{H}_2\text{O}$ , and  $\text{CH}_4$  occurs. The changes occurring in a carbohydrate of the type  $\text{C}_6\text{H}_{12}\text{O}_6$  are discussed as an example. It is shown that the residues of this compound, remaining after the splitting off of water lie on a straight line having its beginning at the point representing the compn. of water and ending at pure C. Dehydration residues of other org. compds. lie on lines which converge at the  $\text{H}_2\text{O}$  point. When  $\text{CO}_2$  is split off from the carbohydrate, the residues likewise fall on a straight line. Its beginning is at the compn. of  $\text{CO}_2$  and its end at  $\text{CH}_4$ . These so-called dehydratation lines converge in the  $\text{CO}_2$  point. The analytical values of all the combustibles are shown to lie within a triangle bounded by the dehydratation and the decarbonylation lines of the carbohydrate  $\text{C}_6\text{H}_{12}\text{O}_6$  or its residual products. These different dehydratation and decarbonylation lines divide the combustibles in such a manner that the various types (as peat, lignite, brown coal, mineral coal, oil shale, petroleum, and natural gas) lie in quadrilateral areas. The relationships shown by these areas as well as the intermediate unoccupied areas are satisfactorily explained by the fact that in the transition from one type to another a mol. of  $\text{CO}_2$  or  $\text{H}_2\text{O}$  is split off from the carbohydrate and the residues form one mol. of a new type. Tables show the schematic transition from plants to peat  $\rightarrow$  lignite  $\rightarrow$  brown coal  $\rightarrow$  mineral coal  $\rightarrow$  anthracite or from plants to oil shale  $\rightarrow$  petroleum. The road forward represents 40% of the plant substance. From the scheme presented it should be possible to follow the changes in the technological properties of the fuels along genetic lines.

M. O. Mours

CA

Theoretical world fuel resources. S. M. Grigor'ev  
*Izdat. Akad. Nauk S.S.R., Otdel. Tekh. Nauk 1948, No. 1.*  
113-14. — The 3 fundamental processes of conversion of  
carbohydrate  $\alpha$ -C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> into fuels are represented by:  
(1) C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> + H<sub>2</sub>O  $\rightarrow$  C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> (cellulose) + H<sub>2</sub>O  $\rightarrow$   
C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> (peat) + H<sub>2</sub>O  $\rightarrow$  C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> (anthracite) + H<sub>2</sub>O  $\rightarrow$  C (graphite); (2) C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> + H<sub>2</sub>O  $\rightarrow$  C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> (sapropelite) = H<sub>2</sub>O<sub>2</sub>  $\rightarrow$  C<sub>6</sub>H<sub>6</sub> (petroleum); (3) C<sub>6</sub>H<sub>10</sub>O<sub>5</sub> +  
3CO<sub>2</sub>  $\rightarrow$  3CH<sub>4</sub> (natural gas). If all free O<sub>2</sub> is due to  
photosynthesis by plants, estd. to produce  $1.5 \times 10^{10}$   
tons of O<sub>2</sub> per year, there must be a relation between the  
amt. of fuels and that of O<sub>2</sub>. If the calorific value of  
fuels is expressed (Komovskiy, *C.A.* 10, 1420), by the  
heat of combustion of free O<sub>2</sub> in an amt. theoretically  
necessary for the combustion of the given fuel, the total  
heat of combustion of all the O<sub>2</sub> available is equal to the  
total heat of combustion of the total resources of fuels  
present in the earth. With the total amt. of O<sub>2</sub> present  
in the biosphere taken to be  $1.2 - 2.1 \times 10^{10}$  tons, and  
with 3000 cal./g. taken for the calorific value of O<sub>2</sub>, as  
defined above, one finds that the total amt. of fuel, of an  
av. calorific value of 7000 cal./g., must be between 0.42  
and  $0.91 \times 10^{10}$  tons. This is from 75 to 130 times less  
than the estd. known world resources in fuels.  
N. Thom

Supervision, Lab. of Processing URIN,  
Institute Inst. im D. M. Kharlamovskiy

GRIGOR'YEV, S. N.

"Geochemistry and Energetics of the Processes of Mineral Fuel Formation." Thesis for degree of Dr. Technical Sci. Sub 29 May 50, Inst of Mineral Fuels Acad Sci USSR.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernaya Moskva, Jan-Dec 1950.

GRIGOR'YEV, Stepan Makarovich

Academic degree of Doctor of Technical Sciences, based on his defense, 23 June 1953, in the Council of the Institute of Fossil Fuels of the Acad Sci USSR of his dissertation entitled: "The Processes of Formation and Characteristics of Fossil Fuels."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 25, 10 Dec 55, Brulleten' NVO SSSR,  
Uncl. JTRS/NY 548

ORIGOR'YEV, S.M.; SOKOLOV, V.A., doktor khimicheskikh nauk; MARKOV, V.Ya.,  
redaktor; POLYAKOVA, T.V., tekhnicheskiy redaktor.

[Formative processes and characteristics of mineral fuels; some problems of contiguous divisions of the science of mineral fuels] O protsessakh obrazovaniia i svoistvakh goriuchikh iskopaemykh; nekotorye voprosy sopredel'nykh razdelov nauki o goriuchikh iskopaemykh. Moskva, Izd-vo Akademii nauk SSSR, 1954. 261 p. [Microfilm] (MLRA 7:11)  
(Coal)

GRIGOR'YEV, S.M.

USSR.

The relation between the composition and the properties of fuels. S. M. Grigor'yev. Trudy Inst. Goryach. Iskopayey, Akad. Nauk S.S.R., 3, 41-61(1954).—G. arranges all the fossil fuels on the basis of their compn. in a diagram constructed by a gradual elimination of  $H_2O$  and  $CO_2$  from a mol. of cellulose (represented by  $C_{6}H_{10}O_6$ ). In such a diagram, the different classes of fuels from cellulose to anthracite and petroleum oils are grouped in different areas, and the variations in the properties of the fuels with the compn. can be more readily observed than when the changes are compared with the changes in content of one element only. W. M. Sternberg

B2

AID P - 2790

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 18/19

Author : Andreyev, P. F.

Title : S. M. Grigor'yev, O protsessakh obrazovaniya i svoystvakh goryuchikh iskopayemykh. Formation and properties of mineral fuels, 1954 (Book Review)

Periodical : Zhur. prikl. khim. 28, 4, 448-449, 1955

Abstract : Critical review

Institution : None

Submitted : No date

AGROSKIN, Anatoliy Abramovich; GRIGOR'YEV, Stepan Makarovich; PETRENKO,  
Ivan Gavrilovich; PITIN, Rafaill Nikolayevich; SAPOZHNIKOV, L.M.,  
otvetstvennyy redaktor; KLIMOV, V.A., redaktor izdatel'stva;  
PAVLOVSKIY, A.A., tekhnicheskiy redaktor

[Bulk weight of coal used in coking] Nasypnoi ves uglei dlia  
koksovaniia. Moskva, Izd-vo Akademii nauk SSSR, 1956. 175 p.  
(MIRA 9:8)

1. Chlen-korrespondent AN SSSR (for Sapozhnikov)  
(Coke industry) (Coal)

VOL'-EPSHTEYN, A. B.; GRIGOR'YEV, S. M.; KRICHKO, A. A.; KOMYASHINA,  
R. A.; SUROVTSEVA, V. V.; YULIN, M. K.

Production of aromatic hydrocarbons from pyrolysis tar of hydro-  
carbon gases by hydrogenation. Trudy IGI 17:269-277 '62.

(MIRA 15:10)

(Hydrocarbons) (Coal-tar products)  
(Hydrogenation)

AGROSKIN, Anatoliy Abramovich. Prinimali uchastiye: GRIGOR'YEV.  
S. M. doktor tekhn. nauk; PITIN, R.N., doktor tekhn.  
nauk; PETRENKO, I.G., kand. khim. nauk; GOL'FERG, I.I.,  
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[Physics of coal] Fizika uglia. Moskva, Nedra, 1965.  
351 p. (MIRA 19:1)

TRUBIN, B.G., prof.; LUR'YE, A.B.; GRIGOR'YEV, S.M.; IVANOVICH, E.M.; MEL'NIKOV, S.V.; ANTIPIN, V.G., kand. tekhn. nauk, retsenzent; VOLKOV, B.G., kand. tekhn. nauk, retsenzent; MULLAYANOV, R.G., kand. tekhn. nauk, retsenzent; OVSYUKOV, V.N., kand. tekhn. nauk, retsenzent; BELYAYEV, A.S., st. nauchnyy sotr., retsenzent; KOZLOVSKIY, Ye.V., inzh., retsenzent; TRAK, E.E., inzh., retsenzent; SIMONOVSKIY, N.Z., red.izd-va; SPERANSKAYA, O.V., tekhn. red.

[Agricultural machines; theory, design, and calculations]  
Sel'skokhosiaistvennye mashiny; teoriia, konstruktsiia i raschet.  
Pod red. B.G.Turbina. Moskva, Mashgiz, 1963. 575 p.

(MIRA 16:5)

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(Agricultural machinery--Design and construction)

BODROV, Vikentiy Alekseevich; GRIGOR'YEV, Sergey Nikolayevich;  
KOVAL', V.D., retsenzent; ZHADAN, G.M., retsenzent;  
KUZ'MINA, V.S., red.; KISINA, Ye.I., tekhn. red.

[Processing of raw whale products on whale factory ships]  
Pererabotka kitovogo syr'ia na kitobazakh. Moskva, Pi-  
shchepromizdat, 1963. 362 p. (MIRA 16:12)  
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BODROV, Vikentiy Alekseyevich, inzh., GRIGOR'YEV, Sergey Nikolayevich, inzh.,  
TVER'YANOVICH, Vladimir Antonovich, inzh.; NAGURSKIY, A.V., prof.,  
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[Equipment and methods for processing marine mammals; whales,  
dolphins, and pinnipedia] Tekhnika i tekhnologiya obrabotki morskikh  
mlekopitaiushchikh; kity, del'finy i lastonogie. Moskva, Pishchepromisdat,  
1958. 588 p. (MIRA 11:11)

(Pinnipedia)  
(Whales)  
(Dolphins)

GRIGOR'YEV, S.N., prof.

Use of mobile gas-turbine plants for the mechanization of  
track work in railroad transportation. Trudy Mill no. 179:  
92-100 '64. (MTRU 17:7)

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Sovremennye gazovye turbiny. (Po materialam inostrannykh zhurnalov)  
(Vestn. Mash., 1948, no. 7, p. 15-22)

Includes bibliography.

Modern gas turbines (according to materials of foreign reviews)

DLC: TN4.V1

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
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GRIGOR'YEV, Sergey Nikolayevich.

Academic degree of Doctor of Technical Sciences, based on his defense, 9 December 1953, in the Council of the Moscow Order of Lenin Inst of Engineers of Railroad Transport imeni Stalin, of his dissertation entitled: "Increasing the power of steam-engines by accumulating heat".

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no 6, 19 Mar 55, Byulleten' MVO SSSR, No. 14, July 66 Moscow pp 4-22, Uncl.  
JPRS/MY-429

GRIGOR'YEV, Sergey Nikolayevich, doktor tekhnicheskikh nauk; DACHUK, L.Ya.,  
inzhener, redaktor; VENINA, G.P., tekhnicheskiy redaktor

[Locomotives without fireboxes] Bestopochnye parovozы. Moskva,  
Gos. transp. zhel-dor. izd-vo, 1956. 38 p. (MLB 9:8)  
(Locomotives)

DOLGOVSKIY, Nikolay Mitrofanovich; GRIGOR'YEV, S.N., red.; VORONIN,  
K.P., tekhn.red.

[Heat engineering and heat equipment at electric power plants]  
Teplotekhnika i teplovoe khoziaistvo elektrostantsii. Moskva,  
Gos.energ.izd-vo, 1959. 182 p. (MIRA 12:10)  
(Electric power plants)

(O)

PHASE I BOOK EXPLOITATION

SOV/3252

Grigor'yev, Sergey Nikolayevich and Nikolay Vasil'yevich Shchetinin

Teplovyye dvigateli i kompressory (Heat Engines and Compressors)  
Moscow, Transzheldorizdat, 1959. 363 p. 6,000 copies printed.

Ed.: L.A. Aleksandrov, Engineer; Tech. Ed.: G.P. Verina.

PURPOSE: The book is intended for students at technical schools of higher learning, especially those studying railway engineering. It can also be used by engineers specializing in steam engines and internal-combustion engines for transportation and industry.

COVERAGE: The book summarizes the experience obtained in designing and operating steam engines, internal-combustion engines and diesels, and steam turbines, especially in rail transportation. An historical sketch of the development of engine and turbine building in the USSR is given. Methods of calculating the thermal efficiency of the main types of engines are given and supplemented with diagrams and practical examples. Experience

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Heat Engines and Compressors

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in proper operation and maintenance is also presented. Docent N.V. Shchetinin wrote Part I and Chapters V-X of Part III. Professor S.N. Grigor'yev compiled Parts IV and V, and chapters I-IV and XI of Part III. Part II was written by Docent K.I. Yakovlev. Acknowledgement is extended to Professor A.S. Yastrzhembskiy, Doctor of Technical Sciences, and Docent V.V. Vodolazhchenko, Candidate of Technical Sciences, as well as to the staff of the Khar'kov Railway Engineering Institute for assistance in reviewing the manuscript. Specifications are given on some of the leading types of Soviet turbines, together with diagrams and data on the manufacturer. There are 32 Soviet references, 278 figures and 8 tables.

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CHEKRENEV, A.I., doktor tekhn. nauk, prof.; ILINSKIY, V.A., dots.  
[deceased]; GRISHANIN, K.V., kand. tekhn. nauk, dots.;  
SELEZNEV, V.M., kand. tekhn.nauk; GILYAROV, N.P., dots., kand.  
tekhn. nauk; KOSTENKO, N.M., inzh.; Prinimali uchastiye:  
GRIGOR'YEV, S.N., inzh.; TEREKHOV, I.B., inzh.; KHIZHOV, B.M.,  
inzh., red.; VOLCHOK, K.M., tekhn. red.

[Practical manual on channel improvement operations in inland  
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noi transport," 1961. 275 p. (MIRA 16:2)

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BATUSOV, S.V.; GRIGOR'YEV, S.N.; SIMONOV, A.P.; SHADRIN, I.A.; GRIGOR'YEV,  
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[Electrification of beacons for inland navigation] Elektrifikatsiya  
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(Beacons)

GRIGOR'YEV, S. N.

Sudokhodnaia obst' novka na kanalakh i vodokhranilishchakh i ee obsluzhivanie  
Navigation installations on canals and reservoirs and their upkeep.  
Moskva, Vodtransizdat, 1953. 135 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

SIZOV, G.N.; GRIGOR'YEV, S.N., redaktor; VINOGRADOVA, N.M., redaktor;  
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[Function of the submerged hydraulic excavator spray] Rabota  
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BELYAYEV, Vladimir Dmitriyevich; ORIGOR'YEV, S.N., redaktor; VINOGRADOVA, N.M.,  
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schools of the river fleet's headquarters command] Rechnye izyskania  
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[River improvement] Vypravitel'nye raboty na rekakh. Moskva,  
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retsenzent; GRIBUNIN, O.P., retsenzent; VINOGRADOVA, N.M., redaktor;  
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[Conditions of sailing in inland navigation] Sudokhodnaya obstanovka  
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1955. 299 p.

(MLRA 9:3)

(Inland navigation)

GRIGOR'YEV, S. N.

POPKOV, Ivan Fedorovich, inzhener; MATLIN, G.M., redaktor; GRIGOR'YEV, S.N.,  
retsensent; MOROZHODOV, I.S., retsensent; MAKRUSHINA, T.P., redaktor;  
KRASHAYA, A.K., tekhnicheskiy redaktor

[General sailing directions for inland waterways] Obshchaya lotsia  
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[Practical manual for overseers of navigation channels] Prakticheskoe posobie putevomu mestoru. Moskva, Izd-vo "Techno transport," 1957.  
191 p. (Hydraulic engineering) (Marine service)

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GRIGOR'YEV, Sergey Nikolsyevich; KUSKOV, Lev Sergeyevich; SUTYRIN, M.A.,  
Ivan., retsevzent; LAPTEV, M.I., red.; FEDYAYEVA, N.A., red.izd-va;  
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[General navigation manual on reservoirs and tailwaters at  
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S.N., red.; FEDYAYEVA, N.A., red. izd-va; POKHLEBKINA, M.I., tekhn.  
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[Thermal sections of electric power plants; heat engineering systems]  
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GRIGOR'YEV, Stepan Petrovich, slesar'-tekhnichchik; GOLOVANOV, A.A.,  
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VINSKIY, V.V., inzh., red.izd-vs; KL'KIND, V.D., tekhn.red.

[Instrument manufacture and adjustment] Slesarno-instru-  
mental'nye raboty. Moskva, Gos.nauchno-tekhn.izd-vo mashino-  
stroit.lit-ry, 1959. 127 p. (MIRA 13:2)  
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no.11:14-16 N '64 (MIRA 18:2)

GRIGOR'YEV, S.S.; REREN, B.B.; ROZENMAN, Ye.B.; MYAGKOV, V.A., redaktor;  
POLTEVA, B.Kh., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy  
redaktor

[Work experience of the Vyazemskiy Forest Industry Establishment]  
Opyt raboty Viazemskogo lespromkhoza. Soct. S.S. Grigor'ev i dr.  
Moskva, Goslesbumizdat, 1956. 23 p. (MLRA 10:4)

1. Russia (1923- U.S.S.R.) Ministerstvo lesnoy promyshlennosti.  
TSentral'noe biuro tekhnicheskoi informatsii.  
(Vyazemskiy--Forests and forestry)

PHASE I BOOK EXPLOITATION

SOV/4715

Grigor'yev, Sergey Sergeyevich, and Anatoliy Maksimovich Lebedev

Avtomaticheskaya naладка и подналадка стакнов и инструментов в автоматических линиях и стакнах-автоматах (Automatic Setup and Setup Adjustment of Machines and Tools in Automatic Lines and Automatic Machine Tools) Minsk, Belgiz, 1960. 178 p. 3,000 copies printed.

Ed.: P. Kashtanov; Tech. Ed.: N. Stepanova.

PURPOSE: This book is intended for technical and scientific personnel, production innovators, and students at technical schools of higher education interested in automation in the machine-building industry.

COVERAGE: The authors review various works devoted to problems of the investigation and practical application of automatic setup and setup adjustments of cutting tools for metal-cutting machine tools. The practical work was carried out by coworkers at the Laboratory of Automation and Mechanization of Manufacturing Processes in the Machine-Building Industry at the Institut mashinovedeniya AN BSSR (Institute of the Science of Machines of the Academy of Sciences

Card 1/4

Automatic Setup and Setup Adjustment (Cont.)

SOV/4715

Belorussian SSR), Chapters III, IV, and VI were written by Engineer S.S. Grigor'yev. Engineer A.M. Lebedev wrote Chapters I, II, and V. The book was compiled with the supervision and assistance of G.K. Goranskiy, Candidate of Technical Sciences. There are 120 references: 95 Soviet, 24 English, and 1 German.

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Ari, or'gov, Semyon Timofeyevich

ECP  
JULY 27 1982

Prava I Obyavannosti Revizionnykh Komissiy Kolkhozov  
(Laws and Duties of Revision Commissions of Kolkhozes)

Moskva, Gosyurizdat, 1955

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[Rights and obligations of inspection committees on collective farms]  
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PYLAYEVA, A.P., red.; BALLOD, A.I., tekhn. red.

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KONAROVSKIY, Aleksandr Nikolayevich, doktor tekhn. nauk, prof.;  
GRIGOR'YEV, S.T., red.; KOSHEK, I.P., red.

[Panel and large-block construction of industrial buildings  
and power plants] Panel'noe i kroupnotlochnoe stroitel'stvo  
prezgashchennykh i energeticheskikh ob"ektov. Moskva, Ener-  
gizdat, 1975. 439 p. (U.I.A. 12:3)

GRIGOR'YEV, S.V., kand.tekhn.nauk, zasluzhennyy deyatel' nauki Karel'skoy ASSR, otd.red.; PRAVDIN, I.F., doktor biolog.nauk, zasluzhennyy deyatel' nauki Karel'skoy ASSR, red.; ANDREYEV, I.F., kand.biolog. nauk, red.; LUTTA, A.S., kand.biolog.nauk, red.; LOBZA, P.G., kand. geograf.nauk, red.; SAVEL'YEV, M.M., red.; POD'YEL'SKAYA, K.M., tekhn.red.

[Transactions of the Syamozero Expedition] Trudy Siamozerskoi kompleksnoi ekspeditsii. Vol.1. [Hydrology and hydrochemistry] Gidrologia i gidrokhimiia. 1959. 237 p.

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(Syamozero region--Limnology)

ACCESSION NR: AR4042164

S/0274/64/000/005/A009/A010

SOURCE: Ref. zh. Radiotekhnika i elektronika i elektrosvyaz'. Svodnyy tom. Abs. 5A57

AUTHOR: Grigor'yev, S. V.

TITLE: Linear estimates of parameters of regression for stochastic processes

CITED SOURCE: Sb. Itog Nauchn. konferentsii Kazansk. un-ta za 1962 g.

Sekts. matem. n. Kazan', Kazansk. un-t, 1963, 69-71

TOPIC TAGS: Linear approximation, stochastic process, regression parameter

TRANSLATION: Several theorems are formulated for linear estimates of parameters of regression for different stochastic processes. 1. We consider the process

$$y(t) = x(t) + \sum_{i=1}^n a_i \varphi_i(t) / C[a, b],$$

where  $x(t)$ ,  $\varphi_i(t)$ ,  $a_i$  is a process continuous on the average with average 0,

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given linearly independent functions, and unknown parameters of regression, correspondingly. For that process, the singleness of solution and existence of random vector  $u = (u_1, u_2, \dots, u_n)$  are determined, which is the best linear unbiased estimate (in the sense of minimum dispersion) of the vector of regression  $\alpha = (\alpha_1, \alpha_2, \dots, \alpha_n)$ . 2. We consider the case when  $y(t)$  is a Gaussian process. It is indicated that the results obtained are analogous to the results of J. Hajek (Transactions of the Second Prague Conference on Information Theory, Statistical Decision Functions, Random Processes. Prague, 1960, 185 - 197) and are a direct generalization of this work. 3. We consider the process  $y(t) = x(t) + \sigma\epsilon(t)$ ,  $t \in [0, T]$ , continuous on the average, where  $x(t)$  is a stationary process with zero average. Determined in evident form are the best linear estimates of parameters of regression  $u_1, u_2, \dots, u_n$  for such a stationary process. It is indicated that the result obtained for that case is a generalization of the result of W. Grenander (W. Grenander and H. Sege. Toeplitz Forms and Their Application. Publishing House of Foreign Literature, 1961). Bibliography: 3 references.

SUB CODE: MA

ENCL: 00

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OVCHINNIKOV, Andrey Il'ich; GRIGOR'YEV, S.V., doktor geogr.  
nauk, kand. tekhn. nauk, nauchn. red.; TRUBIN, M.I.,  
red.

[Water supply of hydroelectric power stations on the Suna  
and Vyg Rivers in Karelia] Opyt vodnogo khoziaistva sun-  
skikh i vygskikh GES v Karelii. Petrozavodsk, Karel'skoe  
knizhnoe izd-vo, 1963. 97 p. (MIRA 18:7)

ACCESSION NR: AP4042540

S/0140/64/000/004/0056/0060

AUTHOR: Grigor'yev, S. V. (Kazan)

TITLE: Linear prediction for a class of stationary processes

SOURCE: IVUZ. Matematika, no. 4, 1964, 56-60

TOPIC TAGS: linear prediction, stationary process, Wiener process, spectral density, correlation function, Gaussian process, probability process, rational spectral density

ABSTRACT: The author constructs "best" linear predictors in explicit form for some processes closely related to the Wiener process. The claim to originality lies in the fact that the spectral densities are not rational functions. Orig. art. has: 15 formulas.

ASSOCIATION: none

SUBMITTED: 03Jun63

ENCL: 00

SUB CODE: MA

NO REF SOV: 002

OTHER: 000

Card 1/1

GRIGOR'YEV, S.V.

Experience in the evaluation of the complex of the utilization  
of inland water of the Karelian A.S.S.R. Trudy Kar. fil. AN  
SSSR no.36:3-17 '64.

Variability in the abundance of lakes in the drainage areas  
of the rivers of Karelia. Ibid.:40-59 (MIRA 18:9)

GRIGOR'YEV, S.V. (Kazan')

Linear prediction for a class of stationary processes. Izv. vys.  
ucheb. zav.; mat. no.4:56-60 '64. (MIRA 17:9)

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ACC NR: AR5023488

SOURCE CODE: UR/0372/65/000/007/V009/V009

SOURCE: Ref. zh. Kibernetika, Abs. 7V44

AUTHOR: Grigor'yev, S. V.

19  
K

TITLE: Processes which are stationary relative to a certain linear group of transformations

CITED SOURCE: Uch. zap. Kazansk. un-t, v. 124, no. 2, 1964, 32-40

TOPIC TAGS: probability, statistics, random process, transformation, operations research

TRANSLATION: A study is made of transformations  $T_\alpha$  ( $-\infty < \alpha < \infty$ ) of the set of functions  $\{x(\cdot): x(c) = 0\}$ ,  $-\infty < c < \infty$ , having the form

$$\tilde{x}_\alpha(t) = \psi_1(t, \alpha) \cdot x(\psi_1(t, \alpha)) + \psi_2(t, \alpha) \cdot x(\psi_2(t, \alpha)),$$

With certain assumptions on  $\psi_1$ ,  $\psi_2$ ,  $\psi_1'$ ,  $\psi_2'$  it is shown that  $T_\alpha$  represents a group with composition  $T_\alpha T_\beta = T_{\alpha+\beta}$  when and only when

$$\psi_1(t, \alpha) = f^{-1}(f(t) + \alpha), \quad \psi_1(t, \alpha) = \psi_1(t, \alpha),$$

$$\psi_1(t, \alpha) = \frac{e^{\lambda t} a(t)}{a(f^{-1}(f(t) + \alpha))},$$

$$\psi_2(t, \alpha) = -\frac{e^{\lambda t} a(t)}{a(f^{-1}(f(t) + \alpha))},$$

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ACC NR: AR5023488

where  $f(t)$  is a strictly monotonic continuous function,  $a(t) \neq 0$  and  $\lambda$  is a constant. If  $a(t)$  is continuous then, in order that the mean square continuous random process  $x(t)$ ,  $x(0) = 0$  be stationary in a wide sense with respect to the group  $T_\alpha$  (RZhMat, 1964, 10B41), it is necessary and sufficient that its correlation function be of the form

$$\begin{aligned} r(t, s) = & a(t) a(s) \{ e^{-\lambda(f(t)-f(s))} - \\ & \times h(f(t)-f(s)) - e^{-\lambda(f(t)-f(c))} h(f(t)-f(c)) - \\ & - e^{-\lambda(f(s)-f(c))} h(f(s)-f(c)) + h(0) \}. \end{aligned}$$

Here  $h(t)$  is a continuous positively defined function, in this case

$$z(t) = a(t) \{ e^{-\lambda(f(t)-f(c))} z(f(t)-f(c)) - z(0) \},$$

where  $z(t)$  is an ordinary, stationary in the wide sense, random process with correlation function  $h(t)$ . A. Tempel'man

SUB CODE: 12/

Card 2/2

GRIGOR'YEV, S.V.

Chronicle of the history of science and technology (Karelia and the  
Kola Peninsula). Iss.Kar. i Kol'.fil.AN SSSR no.3:165-166 '58.  
(MIRA 11:12)  
(Kola Peninsula--Science) (Karelia--Science)

GRIGOR'YEV, S.V.

Length of lake regions of rivers. Izv.Kar. i Kol'.fil,AN SSSR  
no.4:76-82. '58.  
(MIRA 12:5)

1. Otdel energetiki Karel'skogo filiala AN SSSR.  
(Lakes) (Rivers)

GRIGOR'YEV, S.V.

Chronicle of materials on the history of science and technology  
(Karelia and the Kola Peninsula). Izv.Kar. i Kol'.fil.AN  
SSSR no.4:166-168 '58. (MIRA 12:5)  
(Geography--Bibliography)

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Chronicle on the history of science and technology; Karelia and the  
Kola Peninsula. Izv.Kar.i Kol.fil.AN SSSR no.5:156-157 '58.  
(MIRA 12:9)

1. Otdel energetiki i vodnogo khozyaystva Karel'skogo filiala  
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(Karelia--Science) (Kola Peninsula--Science)

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GRIGOR'YEV, S.V.

Karelian waters as power station reservoirs. Trudy Kar.fil.AN  
SSSR no.18:3-28 '58. (MIRA 12:10)  
(Karelia--Reservoirs)

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GRIGOR'YEV, S.V.

Some limnological calculations and indices. Trudy Kar.fil.akh  
SSSR no.18:29-45 '58. (MIRA 12:10)  
(Limnology)

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MARKOV, Petr Ivanovich; GRIGOR'YEV, S.V., kand.tekhn.nauk, zasluzhennyy deyatel'  
nauki i tekhniki Kol'skoy ASRR, otv.red.; AROM, G.M., red.izd-va;  
BELYKH, E.N., tekhn.red.

[Methods for calculating and analyzing water-power resources of  
the Kola Peninsula] Metodika ucheta i analiz idroenergeticheskikh  
resursov Kol'skogo poluostrova. Moskva, Izd-vo Akad.nauk SSSR,  
1959. 92 p.  
(Kola Peninsula--Water power) (MIRA 12:6)

GRIGOR'IEV, S.V.; GRITSEVSKAYA, O.L.; RIKHTER, G.D., prof., otv.red.;  
TSVETKOV, N.V., red.izd-va; KRUGLIKOV, N.A., tekhn.red.

[Catalog of Karelian lakes] Katalog ozer Karelii. Moskva,  
Izd-vo Akad.nauk SSSR, 1959. 237 p. (MIRA 13:4)  
(Karelia--Lakes--Catalog)

GRIGOR'YEV, S.V.

Chronicle of the history of science and technology (Karelia and the Kola Peninsula). Izv. Kar. i Kol'. fil. AN SSSR no.1:156-158 '59. (MIRA 12:9)

1.Otdel gidrologii i energetiki i vodnogo khozyaystva Karel'skogo filiala AN SSSR.  
(Russia, Northwestern--Science)

GRIGOR'YEV, S.V.

Chronicle of the history of science and technology; Karelia and the  
Kola Peninsula. Izv.Kar. i Kol'.fil.AN SSSR no.2:142-143 '59.

(MIRA 12:11)

1. Otdely gidrologii i energetiki Karel'skogo filiala AN SSSR.  
(Russia, Northwestern--Science)

GRIGOR'YEV, S.V.

Chronicle of the history of science and technology (Karelia and  
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'59. (MIRA 13:4)  
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GRIGOR'YEV, S.V.

Seventh Conference on Inland Waters of the Baltic Region. Izv.  
Kar. i Kol'. fil. AN SSSR no. 3:158-159 '59. (MIRA 13:4)  
(Baltic region--Hydrology)

GRIGOR'YEV, S.V.

Manuscript on the history of science and technology (Karelia  
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150-152 '59. (MIRA 13:5)  
(Karelia--Science) (Kola Peninsula--Science)

BERSONOV, S.A.; GRIGOR'YEV, S.V., kand.tekhn.nauk, zasluzhennyy deyatel' nauki Karel'skoy ASSR. Prinimeli uchastiye: NEYELOV, G.N., gidrolog; LITINSKIY, Yu.B., laborant; BONDARENKO, V.I.; PODRUGINA, R.A.; MINKINA, Ye.A.. KLOPOV, S.V., doktor tekhn.nauk, starshiy nauchnyy sotrudnik, retsenzent, otv.red.; TSVETKOV, N.V., red.izd-vs; KRUGLIKOV, N.A., tekhn.red.

[Water power resources of the Karelian A.S.S.R.; an account of potential resources of water power] Vodnoenergeticheskii kadastr Karel'skoi ASSR; kadastr potentsial'nykh zapasov vodnoi energii. Moskva, Izd-vo Akad.nauk SSSR, 1960. 406 p. (MIRA 13:9)

1. Zaveduyushchiy otdelom gidrologii i vodnogo khozyaystva Karel'skogo filiala Akademii nauk SSSR (for Grigor'yev). 2. Energeticheskiy institut im. G.M.Krzhizhanovskogo AN SSSR (for Klopov).  
(Karelia--Hydroelectric power)

GRIGOR'YEV, Sergey Vladimirovich; SHEKHTER, D.I., red.; PODYEL'SKAYA, K.M., tekhn. red.

[Inland waters of Karelia and their economic utilization] Vnutrennie vody Karelii i ikh khoziaistvennoe ispol'zovanie. Petrozavodsk, Gos. izd-vo Karel'skoi ASSR, 1961. 138 p. (MIRA 14:9)  
(Karelia—Hydrology)

ALEKSANDROV, B.M., red.; GEDIMINAS, A.A., red.; GRIGOR'YEV, S.V., red.;  
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M.N., tekhn.red.

[Biology of inland waters in the Baltic Sea region; transactions]  
Biologiya vnutrennikh vodoemov Pribaltiki; trudy VII nauchnoy  
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Moskva, Izd-vo Akad.nauk SSSR, 1962. 286 p.

(MIRA 15:2)

1. Nauchnaya konferentsiya po izucheniyu vnutrennikh vodoemov  
Pribaltiki. 7th, Petrozavodsk, 1959.  
(Baltic Sea region--Freshwater biology--Congresses)

GRIGOR'YEV, S.V.

Rare instance of multiple hydrological transformation of lake  
reservoirs. Trudy Kar.fil.AN SSSR no.31:3-17 '61. (MIRA 15:7)  
(Sandal, Lake) (Pyalozero, Lake)

GRIGOR'YEV, Sergey Vladimirovich; SHAFRANOVSKIY, K.I., red.

[Inland waters of Karelia and their development; an annotated bibliography] Vnutrennie vody Karelii i ikh ispol'zovanie; bibliograficheskii annotirovannyi uka-zatel'. Pod red. K. Shafranovskogo. Petrozavodsk, Karelskoe knizhnoe izd-vo, 1964. 617 p. (MIA 19:1)

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BABOKIN, I.A., redaktor; BALBACHAN, Ya.I., redaktor; BARABAHOV, F.A.,  
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IL'ICHEV, A.S., redaktor; KAGAN, V.Ya., redaktor; KRASNIKOVSKIY,  
G.V., redaktor; KRASOZOV, I.P., redaktor; KRIVONOGOV, K.K.,  
redaktor; LALAYANTS, A.M., redaktor; MOGILEVSKIY, N.M., redaktor;  
ONIKA, D.G., redaktor; OSTROVSKIY, S.B., redaktor; OSTROVSKIY,  
S.M., redaktor; PEYSAKHOVICH, G.I., redaktor; POCHENKOV, K.I.,  
redaktor; SIRYACHENKO, F.N.; redaktor. SKOCHINSKIY, A.A., redaktor;  
STUGAREV, A.S., redaktor; SKORKIN, K.I.; SKURAT, V.K., redaktor;  
SOBOLEV, G.G., redaktor; TERPITOREV, A.M., redaktor; KHUDOCOVTSIEV,  
N.M., redaktor; TSYPKIN, V.S., redaktor; SHEVYAKOV, L.D., redaktor;  
SHILKOV, A.A., redaktor; ANDREYEV, G.G., tekhnicheskiy redaktor.

[Safety rules in coal and shale mines] Pravila bezopasnosti v  
ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhnizdat, 1951.  
(MLRA 9:1)  
207 p.

1. Russia (1923- U.S.S.R) Ministerstvo ugol'noy promyshlennosti.  
(Coal mines and mining-Safety measures)

Grigor'ev, S. G.

A.

993. EARTH SHOCKS IN KIZEL COAL MINES. Avershin, S.G. and Grigor'ev, S.B.  
(Ugel(Coal), June 1952, 1-10).

This phenomenon resembles explosions in the coal at depths of 200 m.  
and more. Suggestions are made for preventing it. (L).

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AVERSHIN, S.G., (Prof.), GRIGOR'YEV, S.Ye. (Eng.)

"Mine Explosions in Mines of the Kizel' Basin," Ugol' no. 6, 1952

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GRIGOR'YEV, T.

Wide horizons. Prof.-tekhn. obr. 20 no.9:25-26 8 '63.

(MIRA 16:11)

1. Nachal'nik otdela sel'skikh professional'no-tehnicheskikh  
uchilishch Volgogradskogo upravleniya professional'no-tehnicheskogo  
obrazovaniya.

STUDITSKIY,A.N., otv.red.; GRAYEVSKIY,B.Ya., red.; GRIGOR'YEV,T.A., red.; YELISEYEV,V.G., red.; ZBARSKIY,I.B., red.; LIOZNER,L.D., red.; MITSKEVICH,M.S., red.; FRIDENSHTEYN,A.Ya., red.; KHRUSHCHOV,G.K., red.; CHENTSOV,Yu.S., red.; SMIRNOV,Z., red.; LAVRENT'YEVA,O., tekhn.red.

[Transactions of the Second Histological Conference; plastic and restorative processes] Plasticheskie i vosstanovitel'nye protsessy; trudy Vtoroi gistolicheskoi konferentsii. Moskva, Mosk. nauchno-ob-vo anatomov, gistolologov i embriologov, 1959. 319 p.  
(MIRA 14:5)

1. Kafedra gistolologii Moskovskogo gosudarstvennogo universiteta im.M.V.Lomonosova, Moskva (for Studitskiy). 2. Laboratoriya radio-biologii Instituta morfologii zhivotnykh im.A.N.Severtsova AN SSSR, Moskva (for Grayevskiy, Zbarskiy) 3. Kafedra gistolologii, i embriologii Leningradskogo sanitarno-gigienicheskogo meditsinskogo instituta, Leningrad (for Grigor'yev). 4. Kafedra gistolologii i embriologii 1-go Meditsinskogo instituta im.Sechenova, Moskva (for Yeliseyev). 5. Gruppa biokhimii kletochnykh struktur Instituta morfologii zhivotnykh im.A.N.Severtsova AN SSSR, Moskva (for Zbarskiy). 6. Laboratoriya rosta i razvitiya Instituta eksperimental'noy biologii AMN SSSR, Moskva (for Liozner). 7. Tsentral'naya nauchno-issledovatel'skaya Laboratoriya 2-go Moskovskogo meditsinskogo instituta im.N.I.Pirogova, Moskva, (for Khrushchov).

(HISTOLOGY--CONGRESSES)

GRIGOR'YEV, T.N., inzh.; DAR, B.D., inzh.

Ventilation at a state regional electric power plant. Elek. sta.  
32 no. 5:82-83 My '61. (MIRA 14:5)  
(Electric power plants—Heating and ventilation)

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LOGINOV, V.; BELYAYEVA, A.; GAVRILOV, S.; GRIGOR'YEV, V.; ZHURAVLEVA, V.

News from everywhere. Sov. foto 22 no.12:41 D '62.  
(MIRA 16:1)

(Photography)

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GRIGOR'IEV, V.

Town of nylon mines. IUn.tekh. 7 no.5:12-15 My '63. (MIRA 16:6)  
(Severodonetsk--Chemical industries--Design and construction)  
(Communist Youth League)

GRIGOR'YEV, V., inzh.; ZLATKIS, I., inzh.

Roffing tiles made of secondary rubber wastes. Zhil.-kom.khoz.  
9 no.7:21-22 '59. (MIRA 12:11)  
(Tiles, Roffing) (Rubber)

GRIGOR'YEV, V.

Journal of Siberian agricultural workers. Mauka i perek. op. v  
sel'khoz. 8 no.10:77-79 O '58. (MIRA 11:11)  
(Siberia--Agriculture--Periodicals)

GRIGOR'YEV, V., inzhener.

New boring unit. 'Strelitel' no. 123 Ig '57. (MLRA 10:9)  
(Donets Basin--Coal mines and mining)

PLYUSHCHENKOV, L.; GRIGOR'IEV, V.

Improve the performance of weighing and sacking machines. Muk.-elev.  
prom. 26 no. 5:26 My '60. (MIRA 14:3)

1. Smolenskiy mol'miechnyy kombinat.  
(Weighing machines)

DEMYANIK, K.; GRIGOR'YEV, V.

The S.M. Kirov Electrolytic Zinc Plant in Chelyabinsk is 25 years  
old. TSvet. met. 33 no. 6:18-20 Je '60. (MIRA 14:4)  
(Chelyabinsk--Zinc--Electrometallurgy)

GRIGOR'YEV, V., inzh.

The pulse of neutron arteries. IUn.tekh. 6 no.1:33-36 Ja  
'62. (MIRA 15:2)  
(Dubna--Nuclear physics--Research)

GRIGOR'YEV, V. [Hryhor"iev, V.]; FEL'DSHON, Z., kand.tekhn.nauk; GINDIS,  
Ya. [Hindis, IA.], inzh.; AKININ, P., inzh.

Automation of the production of slag "pumice" on a centrifugal  
machine. Bud.mat.i konstr. no.5:22-25 S-0 '62. (MIRA 15:11)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury  
UkrSSR (for Grigor'yev).  
(Automation control) (Slag)

SI KALIKOV, Nikolay Sergeyevich; GRIGOR'YEV, V.; VOLKOVA, K.V., red.

[The West Siberian Economic Region] Zapadno-Sibirskii ekonomiceskii. Novosibirsk, Zapadno-Sibirskoe knizhnoe izdvo, 1963. 62 p. (MIRA 18:5)

J. Nachal'nik planovo-ekonomicheskogo upravleniya sovmarkhoza "Zapadno-Sibirskiy" (for Shkalikov).

GRIGOR'YEV, V.

The Dnieper River is climbing hills. IUn.tekh. 7 no.11:22-24  
N '62. (MIRA 15:12)  
(North Crimea Canal)